[redacted]

PowerKit Emissions Table

Date : 15/04/24

Fuel parameter: ASTDM D2, Sulfur level (<5ppm)
Note 1: Emission test conforms to ISO 8178-1 standard, emission equipment meets TUV certification, recorded data in stable state of engine: rated speed (±25 RPM), pressure, temperature, emission data is stable;
Note 2: Emission data are subject to variations in instrumentation and engine. Field emission test data do not guarantee these levels. Actual field test results may vary depending on test field conditions, installation, fuel specifications, test procedures, and instrumentation. Engines running with excessive intake, exhaust restrictions, or improper maintenance can result in elevated emission levels.

Model	Load % PRP (ESP for EPA engines)	RPM	Power/kW	415 Smoke	Exhaust Temp. °C	Exhaust Pressure kPa	℃ Air intake temp.	Exhaust flow kg/h	Emission mg/Nm^3 NOx	HC	CO	PM g/kWh	5% O_2 factor (in italic) or O2 %	Emission mg/Nm^3 (5%O_2) NOx	HC	CO
[redacted]	100%	1500	632.9	0.17	519	7.0	24.9	3344	1242.3	2.8	39.9		*1.302*	1617.8	3.7	52.0
	75%	1500	474.9	0.20	452	4.1	25.1	2925	834.5	2.6	42.3		*1.522*	1269.9	4.0	64.3
	50%	1500	316.6	0.47	399	2.6	25.3	2309	629.0	3.9	72.3		*1.783*	1121.8	7.0	129.0
	20%	1500	158.1	0.66	324	1.5	25.0	1655	389.5	7.1	61.6		*2.324*	905.0	16.4	143.0
	10%	1500	63.3	0.63	227	1.0	24.8	1343	205.9	13.0	70.7		*3.524*	725.8	45.8	249.1
	100%	1500	679.9	0.25	544	6.4	25.2	3507	1212.7	3.2	56.4		*1.246*	1511.1	4.0	70.3
	75%	1500	509.9	0.20	461	4.7	25.1	3083	835.6	3.1	42.1		*1.487*	1242.2	4.7	62.7
	50%	1500	340.1	0.41	405	3.4	25.2	2425	631.8	3.9	68.9		*1.745*	1102.5	6.8	120.3
	20%	1500	170.0	0.62	332	1.8	25.3	1708	404.4	6.7	63.3		*2.255*	911.8	15.0	142.7
	10%	1500	68.1	0.65	233	1.2	25.1	1354	214.9	13.0	70.9		*3.424*	735.6	44.5	242.8
	100%	1800	669.1	0.14	463	7.7	25.0	4136	928.7	6.8	28.5		*1.520*	1411.8	10.3	43.3
	75%	1800	501.4	0.19	404	5.5	25.0	3727	634.9	4.7	27.9		*1.788*	1135.3	8.4	49.9
	50%	1800	334.0	0.38	361	3.3	25.1	3025	475.4	6.3	42.8		*2.123*	1009.3	13.5	90.8
	20%	1800	167.4	0.75	320	1.9	24.9	2125	318.5	9.8	57.8		*2.669*	850.1	26.0	154.3
	10%	1800	67.1	0.79	259	1.3	25.0	1618	208.2	15.2	57.6		*3.713*	773.2	56.4	213.7
	100%	1800	713.9	0.13	479	7.4	25.0	4232	1012.0	7.0	30.9		*1.459*	1476.2	10.3	45.1
	75%	1800	536.0	0.13	412	4.9	25.0	3836	699.3	5.3	25.8		*1.744*	1219.8	9.2	45.0
	50%	1800	358.3	0.40	366	3.0	25.1	3127	484.5	6.2	40.8		*2.077*	1006.2	12.8	84.7
	20%	1800	179.2	0.73	324	1.6	25.1	2186	326.5	9.6	57.3		*2.628*	858.2	25.2	150.7
	10%	1800	70.0	0.78	265	1.2	25.0	1628	217.0	15.3	57.4		*3.644*	790.8	55.7	209.1
	100%	1500	725.4	0.52	588	6.9	25.0	3638	1065.5	2.4	144.7		*1.212*	1291.3	2.9	175.4
	75%	1500	543.7	0.60	553	4.4	25.0	3092	757.3	3.3	126.7		*1.331*	1007.7	4.4	168.5
	50%	1500	362.5	1.39	500	2.4	25.0	2297	702.0	6.6	339.9		*1.475*	1035.2	9.7	501.3
	20%	1500	179.8	0.77	396	0.7	25.0	1529	570.0	13.7	156.3		*1.845*	1051.7	25.3	288.4
	10%	1500	80.7	0.79	291	0.4	25.0	1301	315.5	28.2	217.6		*2.682*	846.0	75.6	583.6

16M55G4000/5-CHN-non-road III	100%	1500	3299.3	0.15	499	17.6	24.6	17998	1878.4	19.7	48.9		9.22	2528.7	26.5	65.8
	75%	1500	2475.1	0.37	470	14.4	24.8	16122	1105.1	24.5	59.6		10.64	1698.7	37.6	91.7
	50%	1500	1650.4	0.60	455	9.8	24.5	12621	748.8	33.9	60.9		11.66	1280.4	58.0	104.2
	25%	1500	825.2	0.92	432	4.8	24.1	7765	595.1	48.9	105.7		12.74	1154.2	94.8	205.0
	10%	1500	330.0	0.56	334	3.2	23.7	5594	415.5	65.7	126.7		15.19	1163.9	184.1	355.0
16M55G3750/5-CHN-non-road III	100%	1500	2899.2	0.24	478	15.4	18.0	17111	1516.1	22.0	45.8		10.01	2193.6	31.8	66.3
	75%	1500	2173.7	0.41	461	11.9	17.9	15232	892.0	26.8	66.5		11.13	1439.8	43.2	107.4
	50%	1500	1449.5	0.71	453	6.8	17.8	11641	673.5	36.4	62.9		11.91	1185.2	64.0	110.7
	25%	1500	725.2	0.92	418	2.1	17.7	7267	574.9	50.1	136.2		13.05	1166.4	101.7	276.3
	10%	1500	290.0	0.62	318	0.8	17.4	5556	389.8	68.3	116.9		15.54	1179.1	206.6	353.7
16M55G3300/5-CHN-non-road III	100%	1500	2640.7	0.46	482	14.7	22.3	16378	1239.3	22.9	61.0		10.20	1841.7	34.0	90.6
	75%	1500	1980.6	0.72	468	10.4	21.3	13933	898.0	28.5	63.0		11.06	1457.0	46.3	102.2
	50%	1500	1320.3	0.75	459	5.8	21.0	10708	663.7	38.9	58.7		11.84	1170.1	68.6	103.5
	25%	1500	659.9	0.88	417	2.1	21.1	6862	551.2	54.9	164.3		13.15	1138.6	113.3	339.3
	10%	1500	263.8	0.65	312	0.9	20.2	5428	376.1	76.3	117.8		15.71	1179.1	239.0	369.3
16M55G3000/5-CHN-non-road III	100%	1500	2499.7	0.49	470	14.8	17.0	16295	1077.2	26.2	60.8		10.66	1658.7	40.4	93.7
	75%	1500	1875.5	0.76	456	9.9	17.4	13393	900.9	31.6	50.0		11.35	1490.1	52.2	82.6
	50%	1500	1249.3	0.82	449	5.7	18.2	10314	657.6	41.4	53.7		12.08	1180.1	74.3	96.3
	25%	1500	625.1	0.88	402	1.9	18.1	6778	535.3	55.6	156.2		13.45	1144.7	118.8	334.0
	10%	1500	250.2	0.55	302	0.9	18.0	5417	368.6	78.3	115.2		15.90	1191.8	253.3	372.3
16M55G4000/5 Unregulated	100%	1500	3299.7	0.04	477	15.2	16.7	17198	2560.5	25.9	37.0		7.65	3460.7	35.1	50.0
	75%	1500	2473.0	0.05	460	9.1	16.2	13069	3463.1	30.3	62.6		7.86	4820.3	42.2	87.1
	50%	1500	1650.5	0.08	450	5.2	15.8	9523	4629.1	36.2	38.1		8.32	6799.0	53.1	56.0
	25%	1500	825.4	0.16	401	3.2	23.7	6480	3392.0	50.2	68.0		9.69	6040.7	89.5	121.2
	10%	1500	330.0	0.19	334	3.2	23.7	5594	1751.9	57.2	107.0		15.19	4881.9	159.5	298.2
16M55G3750/5 Unregulated	100%	1500	2899.1	0.03	482	15.1	15.5	15338	2762.5	27.2	58.9		7.84	3813.5	39.1	93.9
	75%	1500	2173.8	0.05	481	9.3	16.3	11597	3998.9	32.8	53.5		7.90	5557.6	45.5	74.3
	50%	1500	1449.4	0.10	458	5.5	15.8	8784	4419.8	39.7	41.0		8.61	6661.8	59.8	61.8
	25%	1500	725.0	0.18	415	2.6	17.2	7380	3282.6	49.8	66.2		13.22	1113.1	116.6	140.5
	10%	1500	290.0	0.19	318	0.8	17.4	5556	1704.1	56.6	109.4		15.54	1179.1	206.6	353.7
16M55G3300/5 Unregulated	100%	1500	2646.0	0.03	509	14.9	17.3	13524	3082.5	4.2	113.0		7.54	4101.5	5.5	150.3
	75%	1500	2044.5	0.05	459	8.9	20.2	14216	4306.8	33.6	40.3		9.03	6097.9	47.5	57.1
	50%	1500	1373.9	0.10	459	5.6	15.2	8416	4427.0	42.6	43.5		8.66	6673.2	64.3	65.5
	25%	1500	628.3	0.17	403	2.4	19.2	6955	2762.3	53.5	76.9		11.04	5576.5	107.9	155.3
	10%	1500	263.8	0.16	312	0.9	20.2	5428	1433.2	18.0	67.5		15.71	2114.1	26.6	99.6
16M55G3000/5 Unregulated	100%	1500	2500.5	0.06	499	15.2	15.6	12663	3356.9	28.0	107.1		7.42	4419.2	36.8	141.0
	75%	1500	1874.3	0.08	490	10.0	15.6	10136	4616.1	34.4	47.7		7.83	6355.7	47.4	65.7
	50%	1500	1249.9	0.12	457	6.2	15.5	7929	4222.9	46.3	46.2		8.81	6490.3	71.1	71.0
	25%	1500	628.3	0.17	366	2.8	15.5	5966	2762.3	53.5	76.9		10.57	5576.5	107.9	155.3
	10%	1500	250.2	0.15	302	0.9	18.0	5417	1164.6	66.2	131.2		15.90	4509.7	256.2	508.0
16M55G3300/6 Unregulated	110%	1800	3298.5	0.13	490	15.2	33.7	17979	1331.6	38.7	102.4	——	7.78	1807.5	52.5	139.0
	100%	1800	2476.8	0.09	470	9.3	33.9	14191	1795.1	43.0	94.2		7.08	2563.6	61.5	134.5
	75%	1800	1649.9	0.07	456	4.9	33.8	10512	2250.4	54.2	58.4		6.43	3420.1	82.4	88.8
	50%	1800	824.3	0.11	407	2.9	30.5	7667	1244.3	90.1	84.7		5.39	2405.1	174.2	163.8
	25%	1800	329.9	0.36	303	0.9	23.0	6434	677.7	102.3	112.4		3.83	1961.8	296.2	325.2